Sheet 1 of 23 37658.00008.UTL1 GANNON INTERNATIONAL, LTD. Atty. Noel C. Gillespie (858) 720-2500 EL997866395US

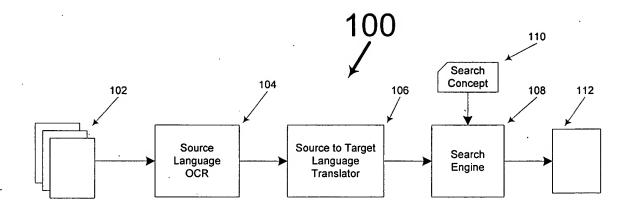


Figure 1

Sheet 2 of 23 37658.00008.UTL1 GANNON INTERNATIONAL, LTD. Atty. Noel C. Gillespie (858) 720-2500 EL997866395US

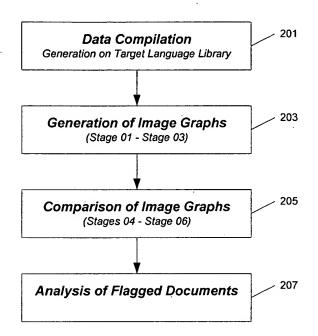


Figure 2

Sheet 3 of 23 37658.00008.UTL1 GANNON INTERNATIONAL, LTD. Atty. Noel C. Gillespie (858) 720-2500 EL997866395US

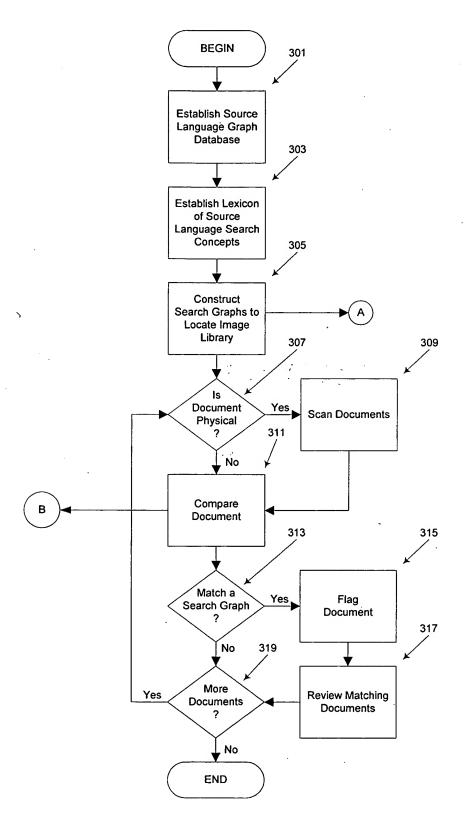


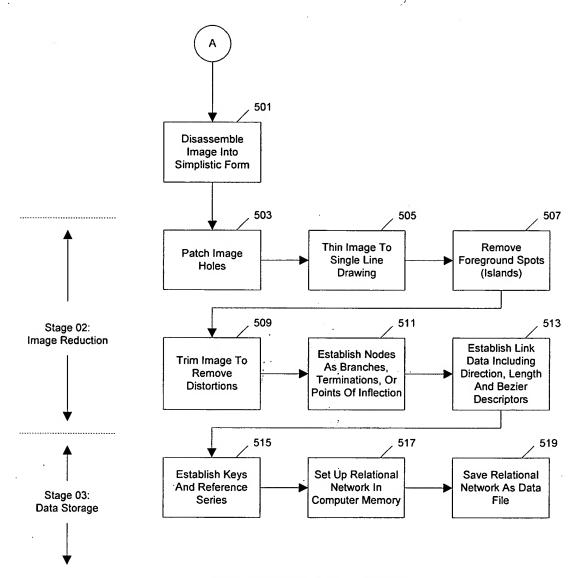
Figure 3

Sheet 4 of 23 37658.00008.UTL1 GANNON INTERNATIONAL, LTD. Atty. Noel C. Gillespie (858) 720-2500 EL997866395US



Figure 4

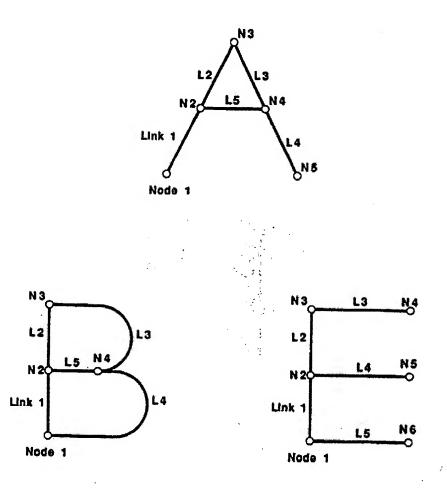
Sheet 5 of 23 37658.00008.UTL1 GANNON INTERNATIONAL, LTD. Atty. Noel C. Gillespie (858) 720-2500 EL997866395US



CREATION OF IMAGE LIBRARY

Figure 5

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Link/node structure for characters "A", "B" and "E"

Figure 6

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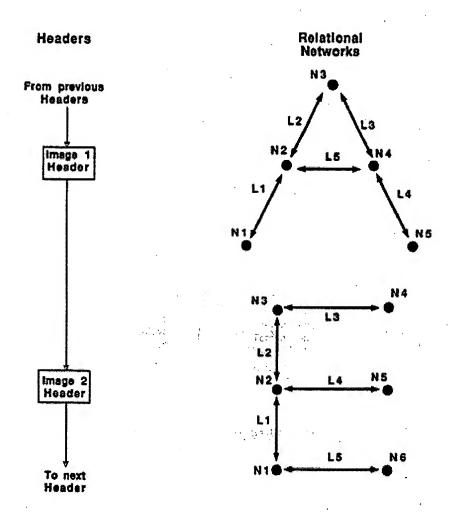


illustration of data structure

Patent provided by Sughrue Mion, PLLC - http://www.sughrue.com

Figure 7

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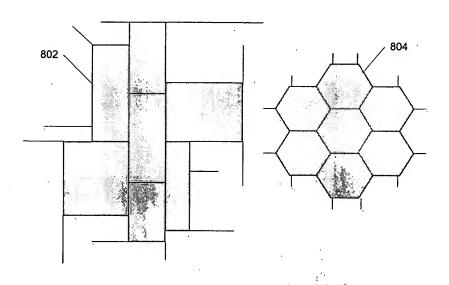
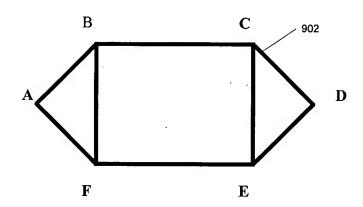


FIG. 8

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Sample Graph:



Connectivity Indices

Vertex	Connectivity Array				
	3	2	1		
A	0	1	0		
В	3	1	0		
C	3	1	0		
D	0	1	0		
\mathbf{E}	3	1	0		
\mathbf{F}	3	1	0		

FIG. 9

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			Ве	fore			
	0	1	^	0	^	1	
A	0	1	0	0	0	1	
В	0	0	1	0	0	1	
C	0	0	0	1	1	0	
D	0	0	0	0	1	0	
E	0	0	0	0	0.	1	
F	0	0	0	0	0	0	

		Af	ter				
	C	E	В	F	D	Α	
C	0	1	1	0	1	0	
E	0	0	0	1	1	0	
В	0	0	0	1	0	0	
F	0	0	0	0	0	1	
D	0	0	0	0	0	0	
Α	0	0	0	0	0	0	

FIG. 10

Sheet 11 of 23 37658.00008.UTL1 GANNON INTERNATIONAL, LTD. Atty. Noel C. Gillespie (858) 720-2500 EL997866395US

Examples of Graphs Embedded in cousine Word

Houston How

Houston Cous

Huston stor

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Examples of Known Charecters Embedded in Unknown Graphs

How Ho Ho

Gus ous ous

sto sto sto

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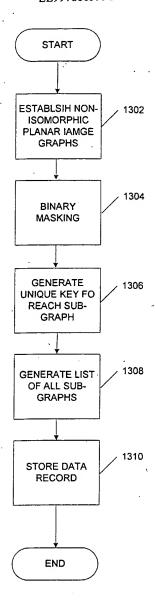


FIG. 13

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15 Non-150mo. Lic forms.

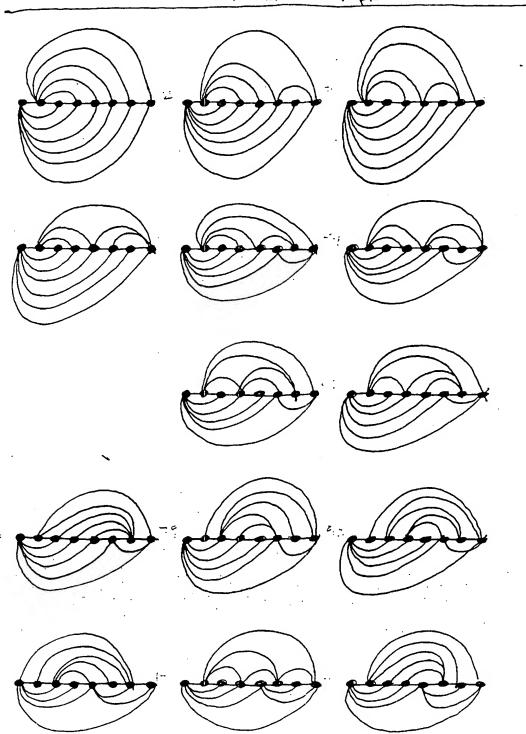


FIG. 14

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Examples of Edge Macking to Isolate Eurledded couples

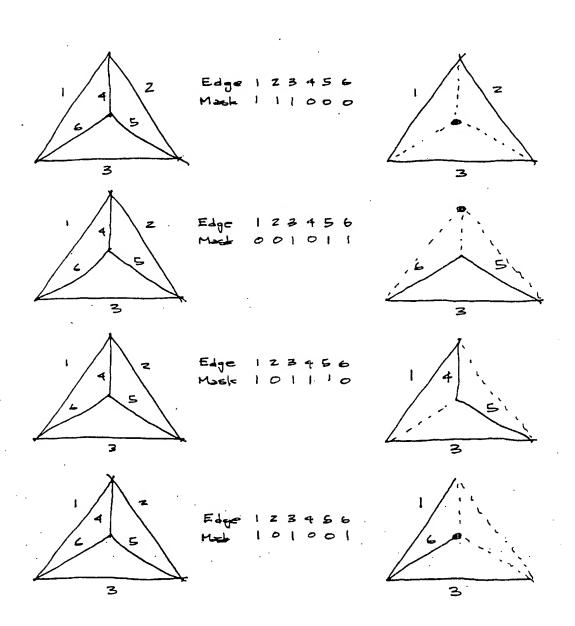


FIG. 15

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Example of Mask boing Bits in Binary Encoding of Counter

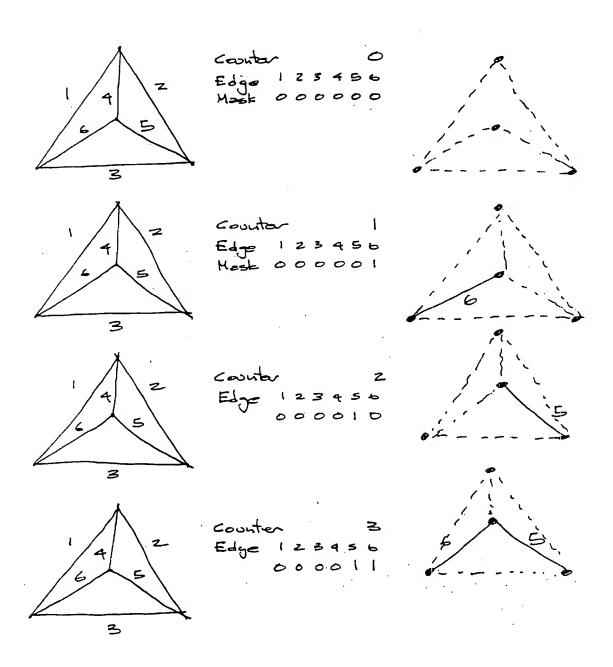
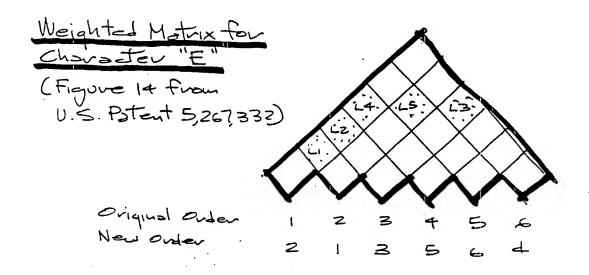


FIG. 16

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Relationship of Turnslation sequence to Weighted Key Matrix



Translation

Translation

Driginal New Sequence Sequence

Z

1

2

3

5

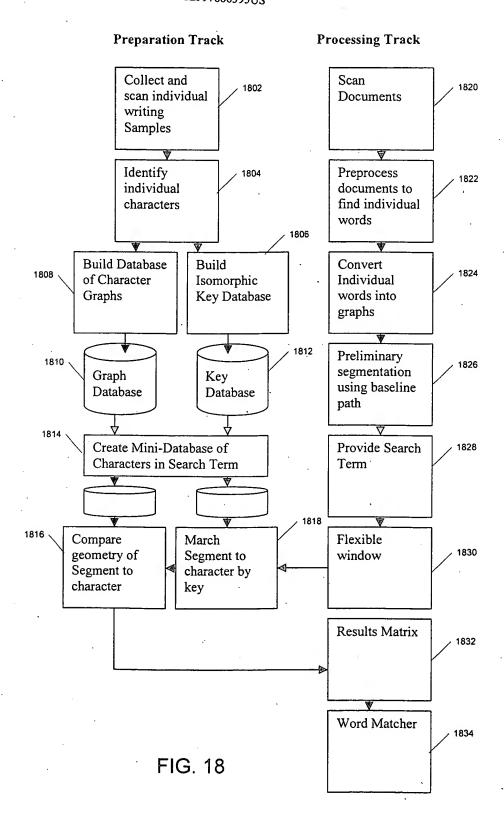
4

6

6

FIG. 17

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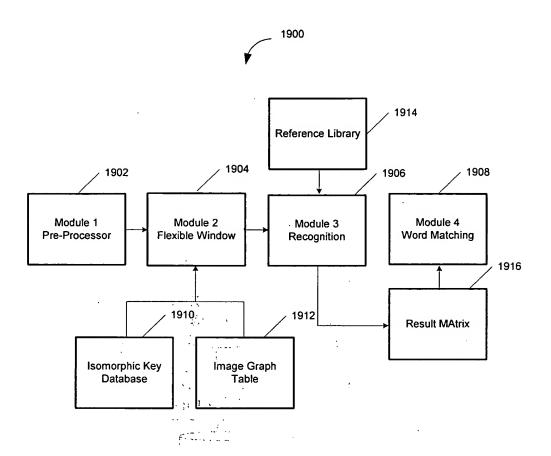


FIG. 19

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: Creation of the Baseline Path

Center

Item a.

Item e.

Center

Item f.

Center

Center

Center

Center

Item c.

Item g.

FIG. 20

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Charles

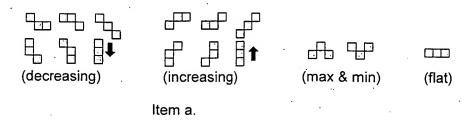
Item a.

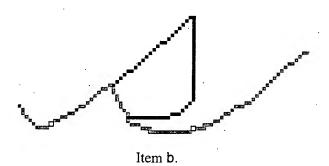
Item b.

FIG. 21

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Pixel Patterns for Segmenting Zones

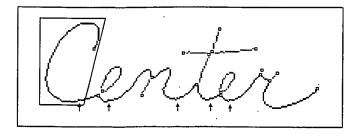


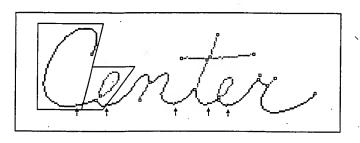


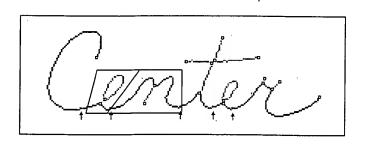


Item c.

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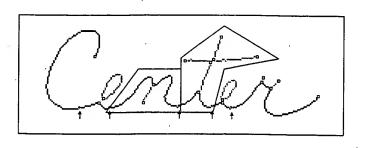


FIG. 23